

Indiana Fire Training Academy System

A Division of Homeland Security

Rope Rescue Technician Level



Evaluator Handbook for Rope Rescue Operations Skills

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Reference material needed for this course:

NFPA 1670, 2009 Ed, Standard for Rescue Technician Professional Qualifications; 5.4.2

TITLE

Rescuer Operating in a High Angle Environment

SKILL SHEET #1

DIRECTIONS

Given a rope rescue system, and a minimum working height of 20 feet, a rescuer will don appropriate personnel protective equipment to affect work from a high angle rope system.

****This should be conducted by teams of four or more. It is not necessary for every student to complete every portion of this although each team must perform each task listed below.****

	Task Steps
1	Selects appropriate personnel protective equipment given incident scenario
2	Selects and uses appropriate harness for task given
3	Properly attaches harness to rope system
4	Shows proper techniques and practices for being lowered while wearing a harness
5	Can identify common hazards posed by improper maneuvering in harness
6	Shows proper skills of maneuvering around system specific obstacles
7	Performs work while suspended from the rope rescue system
8	Evaluates surroundings for potential hazards

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Prevent or prohibit any unsafe acts.

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TITLE

Moving a Victim in a High Angle Environment

SKILL SHEET #2

DIRECTIONS

Given a rope rescue system, other auxiliary rope rescue equipment, and a minimum working height of 20 feet, a rescuer will remove a victim from a given hazard utilizing an appropriate transfer device. (Class I or Class III harness, LSP Halfback, etc.)

This should be conducted by teams of four or more. It is not necessary for every student to complete every portion of this although each team must perform each task listed below.

	Task Steps
1	Selects appropriate personnel protective equipment given incident scenario
2	Selects and uses appropriate harness for task given
3	Safety checks all components of the system
4	Descends a rope system to victim location
5	Properly secures victim transfer device to victim
6	Properly attaches victim to lowering system or raising system
7	Safety checks all components
8	Assure victim is lowered or raised to safety

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TITLE

Function as a Litter Attendant in a High Angle Environment

SKILL SHEET #3

DIRECTIONS

Given a rope rescue system, other auxiliary rope rescue equipment, and a minimum working height of 20 feet; function as a litter attendant in a high angle raising or lowering operation.

This should be conducted by teams of four or more. It is not necessary for every student to complete every portion of this although each team must perform each task listed below.

	Task Steps
1	Selects appropriate personnel protective equipment given incident scenario
2	Selects and uses appropriate harness for task given
3	Safety checks all components of the system
4	Assure litter is attached properly to the raising or lowering system
5	Safely attaches self to the litter raising or lowering system
6	Maneuvers the litter past obstacles or natural structural features
7	Able to manage the litter while suspended from rope system
8	Always evaluates surroundings for potential hazards
9	Properly attaches victim in the litter
10	Manages the litter with victim secured in the raising or lowering to safe location

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TITLE

Picking off a Victim in a High Angle Environment

SKILL SHEET #4

DIRECTIONS

Given an anchor, life safety ropes, and other auxiliary rope rescue equipment, direct a team to establish a rope rescue system to pick-off a victim suspended from rope or webbing in a high angle environment.

****This should be conducted by teams of four or more. It is not necessary for every student to complete every portion of this although each team must perform each task listed below.****

	Task Steps
1	Establishes appropriate anchoring system
2	All knots, bends or hitches are appropriate and correctly tied
3	Safety check completed on anchor system before use
4	Mainline system assembled correctly
5	Safety check preformed on mainline system
6	All sharp edges padded and rope protected
7	All carabiners locked then backed off a quarter turn
8	Belay system is assembled correctly
9	Safety check preformed on belay system

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10	Rescuer dons appropriate harness correctly
11	Rescuer attaches harness appropriately to lowering (mainline) and belay system
12	Rescuer descends with all necessary equipment to conduct a pick-off
13	Rescuer halts lowering at a safe proximity to victim
14	Rescuer correctly attaches harness to victim
15	Rescuer correctly attaches pick-off strap to victim harness
16	Rescuer preforms safety check of system prior to releasing victim from their system
17	Rescuer commands raising or lowering of victim to safety while protecting the victim`
18	Rescuer recognizes unsafe situations and notifies edge tender in a timely manner

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TITLE

Construction of a Reeving Highline System

SKILL SHEET #5

DIRECTIONS

Given a suitable anchor system capable of supporting the load, life safety ropes, and other auxiliary rope rescue equipment, direct a team to establish a reeving highline system with a minimum span of 20 feet.

This should be conducted by teams of four or more. It is not necessary for every student to complete every portion of this although each team must perform each task listed below.

	Task Steps
	Anchoring System
1	Anchoring techniques are adequate for life support
2	All knots, bends or hitches are appropriate and correctly tied
3	Weight is evenly distributed among anchor legs
4	Direction of pull is toward designed edge
	Mainline Construction
1	Mainline is attached to both sides of the span in a manner that ensures maximum efficiency of rope strength
2	Tensioning system for the mainline is constructed in a manner that addresses force multiplication and potential for overloading system
3	Candidate is able to tension and release tension on mainline with control
4	Highline adjustment provides for vertical movement
5	Candidate addresses height at edges to negotiate obstacles and edge hazards
6	Mainline is constructed in a manner that minimizes potential damage to rope

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7	All knots, bends or hitches are appropriate and correctly tied
	Control Line Construction
1	Tag line is constructed in a manner that would arrest the load in the event of a mainline failure
2	Tag line constructed in a manner to offset potential efficiency losses in rope
3	Candidate is able to control movement across mainline for horizontal movement from both sides
4	Extreme forces are taken into consideration and accounted for
5	All knots, bends or hitches are appropriate and correctly tied
	Carriage Construction
1	Candidate assembles carriage system in such a manner to provide for horizontal movement
2	Candidate provides for safe attachment to the load with 2 points (directly to carriage plus a tether)
3	Candidate minimizes friction or drag on mainline

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TITLE

Operation of a Highline System

SKILL SHEET #6

DIRECTIONS

Given a suitable anchor system capable of supporting the load, life safety ropes, and other auxiliary rope rescue equipment, direct a team in the operation of a highline system with a minimum span of 20 feet.

****This should be conducted by teams of four or more. It is not necessary for every student to complete every portion of this although each team must perform each task listed below.****

	Task Steps
	Operational Criteria
1	Candidate identifies position assignments and communication procedures
2	Candidate is able to verbalize commands for operations
3	Candidate identifies the need for tag line hangers and their benefits
4	Candidate is able to verbalize task requirements needed to operate mainline
5	Candidate is able to explain and verbalize methods to tension a mainline while accounting for measurers that will prevent overloading system components
6	Candidate is able to verbalize task requirements needed in order to operate the tag line component of the system
7	Candidate is able to verbalize task requirements needed in order to operate the carriage system
	Safety Evaluation
1	Life support equipment is chosen and appropriately applied

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2	Candidate demonstrates commands in a clear and concise manner throughout the operation
3	Candidate wears appropriate PPE during operation
4	Candidate performs a system safety check before operating the system

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